

ASHT Series HIGH PERFORMANCE PRESSURE & TEMPERATURE TRANSDUCER - UP TO 500 PSI

The ASHT Series feature both pressure and temperature sensors within a single transducer package. These high accuracy transducers have been designed for use in demanding motorsport and on-vehicle automotive testing industries. They are ideal for high precision data acquisition or control systems. The ASHT can also be installed directly onto vehicles or as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASHT is protected against the high vibration, shock and high temperatures found in harsh environments. Continuous operation up to 300°F allows for installations in hot zones. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations. Pressure ranges are available between 0-15 psi and 0-500 psi in either Absolute, Gauge or Sealed Gauge reference.

The industry standard 3-wire electrical connections for the pressure and 2-wire for the temperature allow integration with most common ECU's and data logging systems. Also available with a fitted Hermetic Connector option.

The ASHT Series are race proven in many formula around the world.

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute, Gauge and Sealed Gauge	
Standard Pressure Ranges (psi)	15, 30, 75, 150, 250, 300, 500 For ranges above 500 psi see ASHT high range datasheet	
Proof Pressure (overload)	300% of range	
Burst Pressure	>1000% of range	
Accuracy	±0.08% FS combined linearity & hysteresis (CNLH)	
Thermal Effects	<±0.25% FS TEB within Compensated Range	
Outputs	Pressure: 0.5V to 4.5V (\pm 0.5%) Temperature: NTC, 2-wire \pm 10K \pm 0.25°C or 2-wire PT1000	
Power Supply	5V (±0.5V) Ratiometric or 8-16Vdc (<20mA)	
Operating Temperature Range	-5°F to 300°F (-20°C to +150°C)	
Compensated Temperature Range	32°F to 250°F (0°C to +125°C)	
Construction	Stainless Steel	
Electrical Connection	20", 26AWG 55spec Wire + DR25 Sleeve or Connector or Hermetic Connector. 8STA1-Y02-05PN170	
Process Connection (Thread Size)	Please see Part Number Configurator - Page 2	
Protection Class	IP67 (Cable Option), Hermetic Seal (Connector Option)	
EMC Protection & Vibration	EN 50082-1 and Mil-Std-810C, curve L, 20G	
Weight	1.44oz (Cable Option), 1.16oz (Connector Option)	
Options	Cable Spec, Connector Fitted, Thread Size & Labelling	

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

Sensors For

Motorsport

Features

- Built-in Temp. Sensor
- Cable or Connector
- 0-15 to 0-500 psi
- 300°F Operation
- ±0.08% Accuracy

Applications

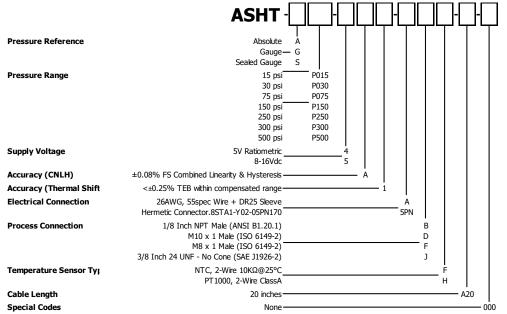
- Coolant
- Brakes
- Water
- Boost
- Fuel
- Loil

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PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

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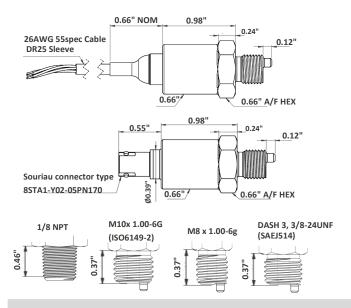
PART NUMBER CONFIGURATOR



The KA configuration tool is used to specify a standard KA Sensor, other options are available.

MECHANICAL & TEMPERATURE DETAILS

Dimensions in inches



ELECTRICAL DETAILS

Cable Option					
+Ve Supply	OV Supply	Output (P)	Output (T)	Output (T)	
Red	Black	White	Blue	Green	
Hermetic Connector Option					
+Ve Supply	OV Supply	Output (P)	Output (T)	Output (T)	
Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	

	ΝΤC10ΚΩ	PT1000	
Temp °F	Output Ω	Output Ω	
-25	120370.00	882.200	
-5	71668.00	921.600	
15	44087.00	960.900	
32	27936.00	1000.000	
50	18187.00	1039.000	
70	12136.00	1077.900	
75	10000.00	1097.300	
85	8284.50	1116.700	
105	5774.20	1155.400	
125	4120.60	1194.000	
140	2967.30	1232.400	
160	2181.70	1270.800	
175	1628.80	1309.000	
195	1233.50	1347.100	
215	946.59	1385.100	
230	735.47	1422.900	
250	578.10	1460.700	
265	459.36	1498.300	
285	368.75	1535.800	
300	298.86	1573.300	

Sense Analyze Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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